

### AMENDMENTS TO THE CLAIMS

Please amend the specification of the present application as set forth below.  
In accordance with the PTO's revised amendment format, changes are shown by  
strikethrough (for deleted matter) or underlining (for added matter).

Claims 1-34 were originally filed.

No claims are canceled.

Claims 35-41 are added.

Claims 1, 2, 15, 26, 29, and 33 are amended without prejudice.

Accordingly, claims 1-34 are pending.

1. (Twice Amended) A method in a server-client environment, the method comprising:

receiving at the server a print request from the client for a driver identifier  
for a printer that is attached to the client and can print information at the client;

using the driver identifier to select a closest matching driver of a plurality  
of drivers to install at the server; and

installing, at the server, the selected driver in order to enable [; and  
allowing] applications executing on the server to print to the printer using the  
installed driver.

2. (Once Amended) A method as recited in claim 1, [wherein the receiving  
comprises receiving the driver identifier from the client] further comprising  
printing the applications that are executing on the server at the printer.

1 3. (Original) A method as recited in claim 1, wherein the driver identifier  
2 includes both a driver name and a driver version.

3  
4 4. (Original) A method as recited in claim 1, wherein the using comprises  
5 accessing a library at the server that stores the plurality of drivers.

6  
7 5. (Original) A method as recited in claim 1, wherein:

8 the using comprises checking whether any of the plurality of drivers has a  
9 corresponding driver identifier that is the same as the received driver identifier;  
10 and

11 if a particular driver of the plurality of drivers has a corresponding driver  
12 identifier that is the same as the received driver identifier, then selecting that  
13 driver to install at the server.

14  
15 6. (Original) A method as recited in claim 1, wherein:

16 the using comprises checking whether any of the plurality of drivers  
17 currently has a corresponding driver identifier that is different than the received  
18 driver identifier but that corresponds to the same driver as the received driver  
19 identifier; and

20 if a particular driver of the plurality of drivers currently has a corresponding  
21 driver identifier that is different than the received driver identifier but that  
22 corresponds to the same driver as the received driver identifier, then selecting that  
23 driver to install at the server.

1 7. (Original) A method as recited in claim 6, wherein one of the plurality of  
2 drivers currently has a corresponding driver identifier that is different than the  
3 received driver identifier but that corresponds to the same driver because of a  
4 driver name change by a source of the driver.

5  
6 8. (Original) A method as recited in claim 6, further comprising:  
7 issuing a notification that the selected driver currently has a corresponding  
8 driver identifier that is different than the received driver identifier but that  
9 corresponds to the same driver as the received driver identifier.

10  
11 9. (Original) A method as recited in claim 1, wherein:  
12 the receiving comprises receiving a driver name and a driver version;  
13 the using comprises checking whether any of the plurality of drivers has a  
14 corresponding driver name that is the same as the received driver name; and  
15 if a particular driver of the plurality of drivers has a corresponding driver  
16 name that is the same as the received driver name, then selecting that driver to  
17 install at the server.

18  
19 10. (Original) A method as recited in claim 9, further comprising:  
20 selecting a first driver with a corresponding driver name that is the same as  
21 the received driver name to install at the server without regard for whether the  
22 received driver version is the same as a corresponding driver version of the first  
23 driver.

11. (Original) A method as recited in claim 9, further comprising:

issuing a notification that the selected driver has a corresponding driver name that is the same as the received driver name but a corresponding driver version that is different than the received driver version.

12. (Original) A method as recited in claim 9, further comprising:

checking whether the selected driver has a corresponding driver version that is the same as the received driver version; and

if the selected driver does not have a corresponding driver version that is the same as the received driver version, then obtaining a new copy of the driver that has the same driver version as the received driver version.

13. (Original) A method as recited in claim 12, further comprising obtaining a new copy of the driver only if the received driver version indicates a more recent version of the driver than is indicated by the driver version corresponding to the selected driver.

14. (Original) At least one computer-readable memory containing a computer program that is executable by a processor to perform the method recited in claim 1.

15. (Amended) A method implemented in a server in a server-client environment, the method comprising:

automatically selecting at least one of a plurality of drivers corresponding to a peripheral device attached to the client; and

1 installing, at the server, the selected at least one driver wherein the server  
2 can interface with the peripheral device using the driver to cause the selected at  
3 least one driver to perform an action at the peripheral device using the driver.  
4

5 **16.** (Original) A method as recited in claim 15, wherein the peripheral device  
6 comprises a printer.  
7

8 **17.** (Original) A method as recited in claim 15, wherein the automatically  
9 selecting comprises using a received driver identifier corresponding to a printer to  
10 select a closest matching driver of the plurality of drivers to install at the server.  
11

12 **18.** (Original) A method as recited in claim 15, wherein:

13 the automatically selecting comprises checking whether any of the plurality  
14 of drivers has a corresponding driver identifier that is the same as a received driver  
15 identifier; and

16 if a particular driver of the plurality of drivers has a corresponding driver  
17 identifier that is the same as the received driver identifier, then installing that  
18 driver at the server.  
19

20 **19.** (Original) A method as recited in claim 15, wherein:

21 the automatically selecting comprises checking whether any of the plurality  
22 of drivers currently has a corresponding driver identifier that is different than a  
23 received driver identifier but that corresponds to the same driver as the received  
24 driver identifier; and  
25

1 if a particular driver of the plurality of drivers currently has a corresponding  
2 driver identifier that is different than the received driver identifier but that  
3 corresponds to the same driver as the received driver identifier, then installing that  
4 driver at the server.

5  
6 **20.** (Original) A method as recited in claim 19, further comprising:

7 issuing a notification that the installed driver currently has a corresponding  
8 driver identifier that is different than the received driver identifier but that  
9 corresponds to the same driver as the received driver identifier.

10  
11 **21.** (Original) A method as recited in claim 15, wherein:

12 the automatically selecting comprises checking whether any of the plurality  
13 of drivers has a corresponding driver name that is the same as a received driver  
14 name; and

15 if a particular driver of the plurality of drivers has a corresponding driver  
16 name that is the same as the received driver name, then installing that driver at the  
17 server.

18  
19 **22.** (Original) A method as recited in claim 21, further comprising:

20 selecting a first driver with a corresponding driver name that is the same as  
21 the received driver name to install at the server without regard for whether a  
22 received driver version is the same as a corresponding driver version of the first  
23 driver.

1   **23.**   (Original) A method as recited in claim 21, further comprising:

2       issuing a notification that the installed driver has a corresponding driver  
3   name that is the same as the received driver name but a corresponding driver  
4   version that is different than the received driver version.

5  
6   **24.**   (Original) A method as recited in claim 21, further comprising:

7       checking whether the installed driver has a corresponding driver version  
8   that is the same as a received driver version; and

9       if the selected driver does not have a corresponding driver version that is  
10   the same as the received driver version, then obtaining a new copy of the driver  
11   that has the same driver version as the received driver version.

12  
13   **25.**   (Once Amended) The method of claim 15, wherein at least one computer-  
14   readable memory contains a computer program that is executable by a processor to  
15   perform the method.

16  
17   **26.**   (Twice Amended) One or more computer-readable media having stored  
18   thereon a computer program that, when executed by one or more processors of a  
19   server in a client-server system, causes the one or more processors to:

20       receive a printer driver identifier for a printer attached to a client;

21       use the printer driver identifier to select one of a plurality of printer drivers  
22   to install at the server according to the following,

23       if a particular printer driver of the plurality of printer drivers has a  
24   corresponding printer driver identifier that is the same as the received  
25   printer driver identifier, then selecting that particular driver,

1 if a particular printer driver of the plurality of printer drivers  
2 currently has a corresponding printer driver identifier that is different than  
3 the received printer driver identifier but that corresponds to the same printer  
4 driver as the received printer driver identifier, then selecting that particular  
5 printer driver, and

6 if a particular printer driver of the plurality of printer drivers has a  
7 corresponding driver name that is the same as a driver name received as  
8 part of the printer driver identifier, then selecting that particular printer  
9 driver without regard for whether that particular printer driver has a  
10 corresponding driver version that is the same as a driver version received as  
11 part of the printer driver identifier; and

12 install the selected printer driver at the server in order to enable the  
13 selected printer to print.  
14

15 **27.** (Original) A method as recited in claim 26, wherein the server comprises a  
16 terminal server and wherein the client comprises a terminal server client.  
17

18 **28.** (Original) A method as recited in claim 26, wherein one of the plurality of  
19 printer drivers currently has a corresponding printer driver identifier that is  
20 different than the received printer driver identifier but that corresponds to the same  
21 printer driver due to a name of the printer driver being changed.  
22

23 **29.** (Twice Amended) An apparatus including a server and a client, the  
24 apparatus comprising:

25 a driver library including a plurality of printer drivers; and



1 a driver matching module to select at least one of the plurality of printer  
2 drivers [for installation] to be installed at the server to enable a printer attached to  
3 the client to print, the selected at least one printer driver corresponding to [a] the  
4 printer attached to the client to perform a printing action at the printer.

5  
6 **30.** (Once Amended) An apparatus as recited in claim 29, wherein the driver  
7 matching module further:

8 checks whether any of the plurality of drivers has a corresponding driver  
9 identifier that is the same as a received driver identifier; and

10 wherein if a particular driver of the plurality of drivers has a corresponding  
11 driver identifier that is the same as the received driver identifier, then install that  
12 driver at the server.

13  
14 **31.** (Once Amended) An apparatus as recited in claim 29, further comprising:

15 a mapping table to map previous driver identifiers to subsequent driver  
16 identifiers;

17 wherein the driver matching module further checks the mapping table to  
18 determine whether any of the plurality of drivers currently has a corresponding  
19 driver identifier that is different than a received driver identifier but that is a  
20 subsequent driver identifier mapped to the received driver identifier as a previous  
21 driver identifier; and

22 if a particular driver of the plurality of drivers currently has a corresponding  
23 driver identifier that is different than a received driver identifier but that is a  
24 subsequent driver identifier mapped to the received driver identifier as a previous  
25

1 driver identifier, then the driver matching module further installs that driver at the  
2 server.

3  
4 **32.** (Once Amended) An apparatus as recited in claim 29, wherein the driver  
5 matching module further:

6 checks whether any of the plurality of printer drivers has a corresponding  
7 driver name that is the same as a received driver name; and

8 wherein if a particular printer driver of the plurality of printer drivers has a  
9 corresponding driver name that is the same as the received driver name, then  
10 install that printer driver at the server without regard for whether that particular  
11 printer driver has a corresponding driver version that is the same as a received  
12 driver version.

13  
14 **33.** (Twice Amended) A system comprising:

15 a client computer having a local printer attached thereto; and

16 a server computer coupled to the client computer via a network, wherein the  
17 server computer includes,

18 a driver library including a plurality of printer drivers, and

19 a driver matching module to select at least one of the plurality of  
20 printer drivers for installation on the server computer to allow applications  
21 executing on the server computer to print to the local printer, the driver  
22 matching module selecting one of the plurality of printer drivers for  
23 installation based on a printer driver identifier and according to the  
24 following,  
25

1 if a particular printer driver of the plurality of printer drivers  
2 has a corresponding printer driver identifier that is the same as the  
3 received printer driver identifier, then selecting that particular driver  
4 for installation in order to enable the local printer to print,

5 if a particular printer driver of the plurality of printer drivers  
6 currently has a corresponding printer driver identifier that is different  
7 than the received printer driver identifier but that corresponds to the  
8 same printer driver as the received printer driver identifier, then  
9 selecting that particular printer driver for installation in order to  
10 enable the local printer to print, and

11 if a particular printer driver of the plurality of printer drivers  
12 has a corresponding driver name that is the same as a driver name  
13 received as part of the printer driver identifier, then selecting that  
14 particular printer driver without regard for whether that particular  
15 printer driver has a corresponding driver version that is the same as a  
16 driver version received as part of the printer driver identifier for  
17 installation on the server computer in order to enable the local  
18 printer to print.

19  
20 **34.** (Once Amended) A system as recited in claim 33, wherein the client  
21 computer transmits the printer driver identifier to the server computer.  
22  
23  
24  
25

Please add new claims 35-41 as follows:

**35.** (New) A computer readable medium having computer executable instructions, which when executed by a processor, causes the processor to:

receive at the server a print request from the client for a driver identifier for a printer that is attached to the client and can print information at the client;

use the driver identifier to select a closest matching driver of a plurality of drivers to install at the server; and

install, at the server, the selected driver in order to enable applications that are executing to print to the printer using the installed driver.

**36.** (New) A computer instruction of claim 35, wherein the applications that are executing to the printer are running on the server.

**37.** (New) A computer instruction of claim 35, wherein the driver identifier includes both a driver name and a driver version.

**38.** (New) A computer instruction of claim 35, wherein the using comprises accessing a library at the server that stores the plurality of drivers.

**39.** (New) A computer instruction of claim 35, wherein:

the use comprises checking whether any of the plurality of drivers has a corresponding driver identifier that is the same as the received driver identifier; and

1 if a particular driver of the plurality of drivers has a corresponding driver  
2 identifier that is the same as the received driver identifier, then select that driver to  
3 install at the server.

4  
5 **40.** (New) A computer instruction of claim 35, wherein:

6 the use comprises checking whether any of the plurality of drivers currently  
7 has a corresponding driver identifier that is different than the received driver  
8 identifier but that corresponds to the same driver as the received driver identifier;  
9 and

10 if a particular driver of the plurality of drivers currently has a corresponding  
11 driver identifier that is different than the received driver identifier but that  
12 corresponds to the same driver as the received driver identifier, then select that  
13 driver to install at the server.

14  
15 **41.** (New) A method of claim 1, wherein the selecting a closest matching  
16 driver includes applying an exact match technique, a driver name mapping  
17 technique, and a close match technique and considering the results from these  
18 techniques.